

<b>U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE</b>  <b>INFORMATION DISCLOSURE LIST</b> <small>(Use several sheets if necessary)</small>	ATT. DOCKET NO.	SERIAL NO.
	11137/05006	09/936,190
	APPLICANT	
	Richard A. Dixon, et al.	
	FILING DATE	GROUP
December 9, 2001	1638	



## U.S. PATENT DOCUMENTS

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RK	AL	WO 96 1 5 2 3 9	5/23/96	PCT	C12N	15/11		
RK	AM	WO 99 1 9 4 9 3	4/22/99	PCT	C12N	15/53		
	AN							
	AO							
	AP							

(Including Author, Title, Date, Pertinent Pages, Etc.).

RK	AR	Adlercreutz, et al., 1991, "Urinary excretion of lignans and isoflavanoid phytoestrogens in Japanese men and women consuming a traditional Japanese diet," <i>Am J Clin Nutr</i> 54:1093-1100
	AS	Akashi, et al., 1998, "Identification of a cytochrome P450 cDNA encoding (2S)-flavanone 2-hydroxylase of licorice ( <i>Glycyrrhiza echinata</i> L.: Fabaceae) which represents licidione synthase and flavone synthase II," <i>FEBS Letters</i> 431: 287-290
↓	AT	Akashi, T., et al., 1999, "Cloning and Functional Expression of a Cytochrome P450 cDNA Encoding 2-Hydroxyisoflavanone Synthase Involved in Biosynthesis of the Isoflavonoid Skeleton in Licorice," <i>Plant Physiology</i> , 121:821-828
RK		

EXAMINER Jessell Hallin DATE CONSIDERED 7/12/2004

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(Including Author, Title, Date, Pertinent Pages, Etc.).

RK	BR	Akiyama, et al., 1987, "Genistein, a specific inhibitor of tyrosine-specific protein kinases," <i>J Biol Chem</i> 262: 5592-559
	BS	Angell, S. M. and D. C. Baulcombe, 1997, "Consistent gene silencing in transgenic plants expressing a replicating potato virus X RNA," <i>EMBO J</i> 16:3675-3684
	BT	Arora, et al., 1998, "Antioxidant activities of isoflavones and their biological metabolites in a liposomal system," <i>Arch Biochem Biophys</i> 356: 133-141
RK		

EXAMINER Russell Kalle DATE CONSIDERED 7/12/2004

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CL								
CM								
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CP								

(Including Author, Title, Date, Pertinent Pages, Etc.)

RK	CR	Bhattacharyya, M. K. and E. W. B. Ward, 1987, "Biosynthesis and metabolism of glyceollin I in soybean hypocotyls following wounding or inoculation with <i>Phytophthora megasperma</i> f. sp. <i>glycinea</i> ," <i>Physiol and Mol Plant Pathology</i> 31: 387-405
CS		Bourque, J.E., 1995, "Antisense strategies for genetic manipulations in plants," <i>Plant Science</i> 105:125-149
		Clough, S.J. and Bent, A.F., 1998, "Floral dip: a simplified method for <i>Agrobacterium</i> -mediated transformation of
CT		<i>Arabidopsis thaliana</i> ", <i>Plant J</i> 16: 735-74

EXAMINER	Russell Kally	DATE CONSIDERED	7/12/2004
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(Including Author, Title, Date, Pertinent Pages, Etc.).

RK	DR	Colliver, S.P., et al., 1997, "Differential modification of flavonoid and isoflavonoid biosynthesis with an antisense chalcone synthase construct in transgenic <i>Lotus corniculatus</i> ," <i>Plant Molecular Biology</i> , 35: 509-522
	DS	Coward, et al., 1993, "Genistein, daidzein, and their $\beta$ -glycoside conjugates: antitumor isoflavones in soybean foods from American and Asian diets," <i>J Agricultural and Food Chemistry</i> 41: 1961-1967
	DT	Dakora, et al., 1993, "Common bean root exudates contain elevated levels of daidzein and coumestrol in response to <i>Rhizobium</i> inoculation," <i>Mol Plant-Microbe Interact</i> 6: 665-668
RK		

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(Including Author, Title, Date, Pertinent Pages, Etc.).

RK	ER	Dixon, R. A. and N. L. Paiva, 1995, "Stress-induced phenylpropanoid metabolism," <i>Plant Cell</i> 7: 1085-1097
	ES	Dixon, R., et al., 1995, "The isoflavanoid phytoalexin pathway: From enzymes to genes to transcription factors,"
		<i>Physiologia Plantarum</i> , 93:385-392
V	ET	Dixon, R.A., Blyden, E.R., Robbins, M.P., van Tunen, A.J. and Mol, J.N.M., 1988, "Comparative biochemistry of chalcone isomerase," <i>Phytochemistry</i> 27: 2801-2808
RK		

EXAMINER Powell Hallin DATE CONSIDERED 7/12/2004

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(Including Author, Title, Date, Pertinent Pages, Etc.)							
RK	FR	Dixon, R.A., et al., 1999 "Molecular controls for isoflavanoid biosynthesis in relation to plant and human health," <i>Phytochemicals in Human Health Protection, Nutrition and Plant Defense</i> , Romeo, ed., Kluwer Academic/ Plenum Publishers, New York; pp. 133-159					
	FS	Draper, et al., 1997, "Phytoestrogens reduce bone loss and bone resorption in oophorectomized rats," <i>J Nutr</i> 127: 1795-1799					
✓RK	FT	Graham, T.L., 1991, "Flavonoid and isoflavanoid distribution in developing soybean seedling tissues and in seed and root exudates" <i>Plant Physiol</i> 95: 594-603					
EXAMINER		Russell Kalis DATE CONSIDERED 7/12/2004					
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RK	GR	Graham, T.L., 1998, "Flavonoid and flavonol glycoside metabolism in <i>Arabidopsis</i> ". <i>Plant Physiol Biochem</i> 36: 135-144
		Hadwiger, L. A. and D. M. Webster, 1984, "Phytoalexin production in five cultivars of pea differentially resistant to three races of <i>Pseudomonas syringae</i> pv. <i>pisi</i> ," <i>Phytopathology</i> 74: 1312-1314
	GT	Hagmann, M. and H. Grisebach, 1984, "Enzymatic rearrangement of flavanone to isoflavone," <i>FEBS Letters</i> 175: 199-202
RK		

EXAMINER Renee Kallin DATE CONSIDERED 7/12/2004  
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	HL								
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(Including Author, Title, Date, Pertinent Pages, Etc.).

RK	HR	Hakamatsuka, et al., 1991, "P-450-dependent oxidative rearrangement in isoflavone biosynthesis: reconstitution of P-450 and NADPH:P450 reductase," <i>Tetrahedron</i> 47: 5969-5978
	HS	Hakamatsuka, et al., 1998, "Purification of 2-hydroxyisoflavanone dehydratase from the cell cultures of <i>Pueraria lobata</i> ," <i>Phytochemistry</i> 49: 497-505
	HT	Hashim, et al., 1990, "Reaction mechanism of oxidative rearrangement of flavanone in isoflavone biosynthesis," <i>FEBS Letters</i> 271: 219-222
RK		

EXAMINER	Ronald K. Allen	DATE CONSIDERED	7/12/2004
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(Including Author, Title, Date, Pertinent Pages, Etc.).

RK	IR		Horsch, et al., 1985, "A simple and general method for transferring genes into plants," <i>Science</i> 227:1229-1231
IS			Jung, W., et al., 2000, "Identification and expression of isoflavone synthase, the key enzyme for biosynthesis of isoflavones in legumes," <i>Nature Biotechnology</i> 18: 206-212
IT			Kape, et al., 1992, "Legume root metabolites and VA-mycorrhiza development," <i>J Plant Physiol</i> 141: 54-60
RK			

EXAMINER Russell Galler DATE CONSIDERED 7/12/2004

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JL								
JM								
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(Including Author, Title, Date, Pertinent Pages, Etc.).

RK	JR	Kessmann, et al., 1990, "Stress responses in alfalfa ( <i>Medicago sativa</i> L.) III. Induction of medicarpin and cytochrome P450 enzyme activities in elicitor-treated cell suspension cultures and protoplasts," <i>Plant Cell Reports</i> 9: 38-41
	JS	Keung, et al., 1995, "Daidzin suppresses ethanol consumption by Syrian golden hamsters without blocking acetaldehyde metabolism," <i>Proc Natl Acad Sci USA</i> 92: 8990-8993
	JT	Keung, W. M. and B. L. Vallee, 1993, "Daidzin: A potent, selective inhibitor of human mitochondrial aldehyde dehydrogenase," <i>Proc Natl Acad Sci USA</i> 90: 1247-1251
V RL		
EXAMINER	Ronald Gaffin	DATE CONSIDERED 2/12/2004
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(Including Author, Title, Date, Pertinent Pages, Etc.).

RK	KR	Kirikae, et al., 1993, "Biosynthesis of a dibenzoylmethane, licosidione, in cultured alfalfa cells induced by yeast extract," <i>Biosci Biotech Biochem</i> 57: 1353-1354
	KS	Klein, et al., 1988, "Stable genetic transformation of intact <i>Nicotiana</i> cells by the particle bombardment process," <i>Proc Natl Acad Sci USA</i> 85:8502-8505
	KT	Kochs, G. and H. Grisebach, 1986, "Enzymic synthesis of isoflavones," <i>European J Biochem</i> 155: 311-318
RK		
EXAMINER	Russell K. Alley	DATE CONSIDERED
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(Including Author, Title, Date, Pertinent Pages, Etc.).

R K	LR	Kochs, G. and H. Grisebach, 1987, "Induction and characterization of a NADPH-dependent flavone synthase from cell cultures of soybean," <i>Z Naturforsch</i> 42C: 343-348
	LS	Kossak, et al., 1987, "Induction of <i>Bradyrhizobium japonicum</i> common nod genes by isoflavones isolated from <i>Glycine max</i> ," <i>Proc Natl Acad Sci USA</i> 84: 7428-7432
	LT	Köster, J. and W. Barz, 1981, "UDP-Glucose: isoflavone 7-O-glucosyltransferase from roots of chick pea ( <i>Cicer arietinum L.</i> ).," <i>Arch Biochem Biophys</i> 212: 98-104

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ML									
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RK	MR	Lee, et al., 1991, "Dietary effects on breast-cancer risk in Singapore," <i>Lancet</i> 337: 1197-1200
	MS	Long, et al., 1985, "Further studies on the relationship between glyceollin accumulation and the resistance of soybean leaves to <i>Pseudomonas syringae</i> pv. <i>glycinea</i> ," <i>Phytopathology</i> 75: 235-239
	MT	Martens, S. and G. Forkmann, "Cloning and expression of flavone synthase II from Gerbera hybrids," <i>Plant J</i> 20: 611-618
RK		

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	NL								
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RK	NR	Martin, et al., 1996, "Interactions between phytoestrogens and human sex steroid binding protein," <i>Life Sciences</i>
		58: 429-436
	NS	Nelson, et al. 1993. "The P450 superfamily update on new sequences, gene mapping, accession numbers, early trivial names of enzymes, and nomenclature," <i>DNA Cell Biol</i> 12:1
	NT	Otani, et al., 1994, "Licidione synthase, a cytochrome P450 monooxygenase catalyzing 2-hydroxylation of 5-deoxyflavanone, in cultured <i>Glycyrrhiza echinata</i> L. cells," <i>Plant Physiol</i> 105: 1427-1432

EXAMINER *Patricia K. Hall* DATE CONSIDERED *2/12/2004*  
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## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER			DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION
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(Including Author, Title, Date, Pertinent Pages, Etc.).

OR		Paiva, N. L. et al., 1994, "Isolation and characterization of a cDNA clone encoding a 450-dependent monooxygenase of benzylisoquinoline alkaloid biosynthesis," <i>The Plant J</i> 13: 793-801
		doxycycline, in cultured <i>Arabidopsis thaliana</i> leaves, <i>Plant Cell, Tissue and Organ Culture</i> , 38: 213-220
RK	OS	Paiva, N. L. et al., 1994, "Regulation of isoflavanoid metabolism in alfalfa," <i>Plant Cell, Tissue and Organ Culture</i> , 38: 213-220
	OT	Pauli, H. H. and T. M. Kutchan, 1998, "Molecular cloning and functional heterologous expression of two alleles encoding (S)-N-methylcoeluridine 3'-hydroxylase (CYP80B1), a new methyl jasmonate-inducible cytochrome P-450-dependent mono-oxygenase of benzylisoquinoline alkaloid biosynthesis," <i>The Plant J</i> 13: 793-801

EXAMINER *Russell Kelly* DATE CONSIDERED

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PL								
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RK	PR	Rahe, J. E., 1973, "Occurrence and levels of the phytoalexin phaseollin in relation to delimitation at sites of infection of <i>Phaseolus vulgaris</i> by <i>Colletotrichum lindemuthianum</i> ," <i>Canadian J Botany</i> 51: 2423-2430
	PS	Sambrook, et al. 1989. <i>Molecular Cloning. A Laboratory Manual</i> , 2nd Ed, Cold Spring Harbor Laboratory Press, New York; pp. 7.2-7.87 and 9.2-9.62
	PT	Siminszky, B., Corbin, F.T., Ward, E.R., Fleischmann, T.J. and Dewey, R.E., 1999, "Expression of a soybean cytochrome P450 monooxygenase cDNA in yeast and tobacco enhances the metabolism of phenylurea herbicides."
RK		<i>Proc. Natl. Acad. Sci. USA</i> 96: 1750-1755

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RK	QR	Steele, C.L., et al., 1999, "Molecular Characterization of the Enzyme Catalyzing the Aryl Migration Reaction of Isoflavonoid Biosynthesis in Soybean," Archives of Biochemistry and Biophysics, 367: 146-150
	QS	Tahara, S. and R. K. Ibrahim, 1995, "Prenylated isoflavonoids - an update," Phytochemistry 38: 1073-1094
	QT	Tikkannen, et al., 1998, "Effect of soybean phytoestrogen intake on low density lipoprotein oxidation resistance," Proc Natl Acad Sci USA 95: 3106-3110
RK		

EXAMINER Dwain Rallin DATE CONSIDERED 7/12/2004  
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RIS	RR	Tomonaga, et al., 1992, "Isoflavonoids, genistein, PSI-tectorigenin, and orobol, increase cytoplasmic free calcium in isolated rat hepatocytes," <i>Biochem Biophys Res Com</i> 182: 894-899
	RS	Uckun, et al., 1995, "Biotherapy of B-cell precursor leukemia by targeting genistein to CD19-associated tyrosine kinases," <i>Science</i> 267: 886-891
	RT	van Buuren, M.L., I.E. Maldonado-Mendoza, A.T. Trieu, L.A. Blaylock, and M.J. Harrison, 1999, "Novel genes induced during an arbuscular mycorrhizal (AM) symbiosis formed between <i>Medicago truncatula</i> and <i>Glomus versiforme</i> ," <i>Mol. Plant-Microbe Interact.</i> 12, 171-181

EXAMINER *Murphy (Kailu)* DATE CONSIDERED *7/12/2004*  
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RK	SR	VanEtten, et al., 1989, "Phytoalexin detoxification: importance for pathogenicity and practical implications," <i>An Rev Phytopathology</i> 27: 143-164
	SS	Wagner, et al., 1997, "Dietary soy protein and estrogen replacement therapy improve cardiovascular risk factors and decrease aortic cholesterol ester content in ovariectomized cynomolgus monkeys," <i>Metabolism - Clinical and Experimental</i> 46: 698-705
	ST	Welle, R. and Grisebach, H., 1989, "Phytoalexin synthesis in soybean cells: elicitor induction of reductase involved in biosynthesis of 6'-deoxychalcone." <i>Arch Biochem Biophys</i> 272: 97-102
RK		

EXAMINER Russell Hallin DATE CONSIDERED 7/12/2004  
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RK	TR	Xie, et al., 1995, "Rhizobial nodulation factors stimulate mycorrhizal colonization of nodulating and nonnodulating soybeans," <i>Plant Physiology</i> 108: 1519-1525
RK	TS	
	TT	

EXAMINER Russell K. Kelly DATE CONSIDERED 7/17/2004  
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